

- 1 1. A well screen, comprising:
2 a sidewall including a material; and
3 at least one line embedded in the sidewall material.

- 1 2. The well screen according to Claim 1, wherein the line extends
2 generally longitudinally through the sidewall.

- 1 3. The well screen according to Claim 1, further comprising a filter
2 media, and wherein the filter media is recessed in the sidewall.

- 1 4. The well screen according to Claim 1, wherein the sidewall material
2 is nonmetallic.

- 1 5. The well screen according to Claim 4, wherein flow passages are
2 formed through the sidewall, and further comprising a generally tubular
3 protective shield lining each of the flow passages.

- 1 6. The well screen according to Claim 5, further comprising a flexible
2 retainer disposed between each shield and the respective flow passage.

- 1 7. The well screen according to Claim 4, wherein the sidewall material
2 is a composite material.

1 8. The well screen according to Claim 1, further comprising a filter
2 media, and wherein the filter media is expandable in a wellbore.

1 9. The well screen according to Claim 1, further comprising at least
2 one sensor connected to the line.

1 10. The well screen according to Claim 9, wherein the sensor senses a
2 parameter external to the well screen.

1 11. The well screen according to Claim 9, wherein the sensor senses a
2 parameter internal to the well screen.

1 12. The well screen according to Claim 1, further comprising an
2 actuator connected to the line.

1 13. The well screen according to Claim 1, further comprising a flow
2 control device connected to the line.

1 14. The well screen according to Claim 1, wherein the line is a selected
2 one of a communication line, an injection line, a power line, a control line and a
3 monitoring line.

1 15. The well screen according to Claim 1, wherein the line is a selected
2 one of a hydraulic line, an electrical line and a fiber optic line.

1 16. A well screen deployment system, comprising:
2 a reel; and
3 at least one well screen wrapped on the reel.

1 17. The system according to Claim 16, further comprising tubing
2 wrapped on the reel, and wherein an outer dimension of the well screen is less
3 than or approximately equal to an outer diameter of the tubing.

1 18. The system according to Claim 17, wherein the tubing is
2 nonmetallic.

1 19. The system according to Claim 16, wherein the well screen includes
2 a filter media, and wherein the filter media is recessed into a tubular body of the
3 well screen.

1 20. The system according to Claim 19, wherein the tubular body is a
2 portion of a tubing wrapped on the reel.

1 21. The system according to Claim 20, wherein the tubing is
2 nonmetallic.

1 22. The system according to Claim 16, wherein the well screen is
2 wrapped in multiple revolutions about the reel.

1 23. The system according to Claim 16, wherein the well screen is
2 continuously formed on a tubing wrapped on the reel.

1 24. The system according to Claim 23, wherein the well screen is
2 formed on the tubing without severing the tubing.

1 25. The system according to Claim 24, wherein the well screen
2 comprises a portion of the tubing having openings formed through a sidewall of
3 the tubing, the openings filtering fluid flowing into the tubing.

1 26. The system according to Claim 25, wherein the tubing sidewall is
2 made of a composite material.

1 27. The system according to Claim 16, wherein the well screen is
2 positioned on the reel corresponding to a predetermined desired location for the
3 screen in a well.

1 28. The system according to Claim 16, wherein there are multiple well
2 screens, and wherein the well screens are spaced apart on the reel corresponding
3 to predetermined desired spacings between the well screens in a well.

1 29. The system according to Claim 16, wherein the well screen is
2 expandable in a well.

1 30. The system according to Claim 29, further comprising tubing
2 wrapped on the reel, and wherein the well screen is expandable radially outward
3 relative to the tubing, when the well screen and tubing are disposed in the well.

1 31. The system according to Claim 16, further comprising at least one
2 sensor connected to the line.

1 32. The well screen according to Claim 31, wherein the sensor senses a
2 parameter external to the well screen.

1 33. The well screen according to Claim 31, wherein the sensor senses a
2 parameter internal to the well screen.

1 34. The well screen according to Claim 16, further comprising an
2 actuator connected to the line.

1 35. The well screen according to Claim 16, further comprising a flow
2 control device connected to the line.

1 36. The well screen according to Claim 16, wherein the line is a selected
2 one of a communication line, an injection line, a power line, a control line and a
3 monitoring line.

1 37. The well screen according to Claim 16, wherein the line is a selected
2 one of a hydraulic line, an electrical line and a fiber optic line.

1 38. A well production system for a well having a wellbore, the system
2 comprising:

3 a coiled tubing string deployed into the wellbore, the coiled tubing string
4 including at least one well screen, and the well screen including a line embedded
5 in a sidewall material of the well screen.

1 39. The system according to Claim 38, wherein the sidewall material is
2 a composite material.

1 40. The system according to Claim 38, further comprising a tractor
2 device connected to the coiled tubing string, the tractor device conveying the
3 coiled tubing string in the wellbore.

1 41. The system according to Claim 40, wherein the line supplies power
2 to the tractor device.

1 42. The system according to Claim 38, further comprising a flow
2 control device connected in the coiled tubing string, the flow control device being
3 actuated via the line.

1 43. The system according to Claim 38, further comprising at least one
2 sensor attached to the coiled tubing string, indications of a parameter sensed by
3 the sensor being communicated via the line.

1 44. The system according to Claim 38, wherein the well screen is
2 continuously formed on the coiled tubing string.

1 45. The system according to Claim 38, wherein the well screen is
2 formed on the coiled tubing string by openings extending through a sidewall of
3 the coiled tubing string.

1 46. The system according to Claim 45, wherein the coiled tubing string
2 sidewall is made of a nonmetallic material.

1 47. The system according to Claim 45, wherein the coiled tubing string
2 sidewall is made of a composite material.

1 48. The system according to Claim 38, wherein the well screen includes
2 a filter media recessed into a tubular body of the well screen.

1 49. The system according to Claim 48, wherein an outer dimension of
2 the filter media is less than or approximately equal to an outer diameter of a
3 tubing portion of the coiled tubing string.

1 50. The system according to Claim 38, wherein the well screen is
2 expandable in the wellbore.

1 51. The system according to Claim 38, further comprising at least one
2 actuator attached to the coiled tubing string, the actuator being connected to the
3 line.

1 52. The system according to Claim 38, wherein the coiled tubing string
2 includes a flow control device actuated via the line.

1 53. The system according to Claim 38, wherein the line is a selected one
2 of a communication line, an injection line, a power line, a control line and a
3 monitoring line.

1 54. The system according to Claim 38, wherein the line is a selected one
2 of a hydraulic line, an electrical line and a fiber optic line.

1 55. A well production system for a well having a wellbore, the system
2 comprising:

3 a coiled tubing string deployed into the wellbore, the coiled tubing string
4 including at least one well screen, and the well screen being expandable in the
5 wellbore.

1 56. The system according to Claim 55, wherein the well screen is
2 expandable radially outward relative to a tubing portion of the coiled tubing
3 string.

1 57. The system according to Claim 55, wherein the well screen includes
2 a line embedded in a sidewall material of the well screen.

1 58. The system according to Claim 55, wherein the well screen includes
2 a tubular body portion made of a composite material.

1 59. The system according to Claim 55, wherein the well screen is
2 continuously formed on tubing of the coiled tubing string.

1 60. The system according to Claim 55, wherein the well screen has an
2 outer dimension which is less than or approximately equal to an outer diameter
3 of a tubing portion of the coiled tubing string.

1 61. A well screen, comprising:
2 a filter media;
3 an outer shroud outwardly overlying the filter media; and
4 a line extending between the filter media and the outer shroud.

1 62. The well screen according to Claim 61, wherein the line is a selected
2 one of a communication line, an injection line, a power line, a control line and a
3 monitoring line.

1 63. The well screen according to Claim 61, wherein the line is a selected
2 one of a hydraulic line, an electrical line and a fiber optic line.

1 64. The well screen according to Claim 61, further comprising at least
2 one sensor connected to the line.

1 65. The well screen according to Claim 64, wherein the sensor senses a
2 parameter internal to the well screen.

1 66. The well screen according to Claim 64, wherein the sensor senses a
2 parameter external to the well screen.

1 67. The well screen according to Claim 61, further comprising an
2 actuator connected to the line.